

# Hawke's Bay Hospital Adult Massive Transfusion Protocol (MTP)

## Consultant Responsibilities

- Use 3 red cells before activating MTP
- Activate protocol by calling the Blood Bank "MTP Phone" \*73295 and say "I am activating the Massive Transfusion Protocol"
- Call for each box as required
- Make decision to stop MTP and contact Blood Bank

## Blood Bank Responsibilities

- Ensure X-match sample processed ASAP after O-negative release
- Notify NZBS Medical Officer after issuing MTP Box One
- Ensure supply of platelets
- Prepare next box in advance and await request
- Check platelet count on FBC sample before issuing further platelets after first "MTP Box Three", if platelet count less than  $75 \times 10^9/L$ , issue 1 unit platelets when stock available
- Send sample tubes for half hourly blood tests

## Contacts re: MTP Activations

- Blood Bank (MTP Phone) \*73295
- Acute Theatre 6531
- Anaesthetic Registrar 6552
- ED 2569
- ICU 2745

## Additional Treatment Thresholds

- If INR  $>1.5$  or APTT  $>40$  consider additional 4 units FFP
- If fibrinogen  $<1g/L$  or  $<2g/L$  for obstetric haemorrhage, consider additional 3 units cryoprecipitate
- If platelets  $<75 \times 10^9/L$  consider additional 1 unit platelets
- If ionized  $Ca^{2+} <1mmol/L$  give 10mL calcium gluconate 10%

Massive bleeding + either abnormal coagulopathy or shock (pulse  $>120$  + systolic BP  $<90$ )

Ensure delivery of X-match specimen to Blood Bank

Give 3 units of O-neg or type specific blood

Consultant to ring Blood Bank –  
Activate Massive Transfusion Protocol

**REQUEST, DELIVER AND TRANSFUSE AS BELOW**

### MTP Box One

2 units RBC  
2 units FFP

### MTP Box Two

4 units RBC  
4 units FFP  
3 units Cryoprecipitate

### MTP Box Three

4 units RBC  
4 units FFP  
1 unit Platelets

### MTP Box Four

4 units RBC  
4 units FFP  
3 units Cryoprecipitate

### Alternate Three & Four

(See Blood Bank responsibilities)

Check Coags  
Platelets/FBC  
ABG/ $Ca^{2+}/K^+$

Check Coags  
Platelets/FBC  
ABG/ $Ca^{2+}/K^+$

Repeat every  
30 minutes